SECOND TERMINAL EXAMINATIONS 2017-18

ANSWER KEY ● CHEMISTRY ● CLASS IX

<table>
<tr><th>Q. N</th><th>ANSWER</th><th>SCORE</th><th>Total</th><th>Choice</th></tr>
<tr><td>1</td><td>Atomic Number</td><td>1</td><td>1</td><td rowspan="5">Any Four</td></tr>
<tr><td>2</td><td>Oxygen</td><td>1</td><td>1</td></tr>
<tr><td>3</td><td>4</td><td>1</td><td>1</td></tr>
<tr><td>4</td><td>Quick lime (CaO)</td><td>1</td><td>1</td></tr>
<tr><td>5</td><td>Alkaline</td><td>1</td><td>1</td></tr>
<tr><td>6</td><td>b) Alkali metal has the lowest ionization energy in the period
c) Usually the oxidation number of metals will be positive</td><td>1
1</td><td>2</td><td rowspan="5">Any Four</td></tr>
<tr><td>7</td><td>
<table>
<tr><th>A
Scientist</th><th>B
Attempts of classification</th><th>C
Major Disadvantage</th></tr>
<tr><td>Dobereiner</td><td>Triads</td><td>Not able to classify all elements</td></tr>
<tr><td>Mendeleev</td><td>Periodic table</td><td>Not able to keep the actual increasing order of atomic mass</td></tr>
<tr><td></td><td>Metals and Non-metals</td><td>Not able to classify Metalloids</td></tr>
</table>
</td><td>2</td><td>2</td></tr>
<tr><td>8</td><td>X= H^+
Y= H_3O^+</td><td>1
1</td><td>2</td></tr>
<tr><td>9</td><td>(a)The P^H of soil is an important factor for crops .
It is important to identify whether the soil of a suitable region is suitable for a particular crop.
For some crops , soil with acidic nature is suitable and for some other crops , soil with alkaline nature is suitable.</td><td>1</td><td rowspan="2">2</td></tr>
<tr><td>(b) Sprinkling of Slaked lime</td><td>1</td></tr>
<tr><td>10</td><td>a) Ammonium chloride - NH_4Cl and Calcium hydroxide - $Ca(OH)_2$</td><td>1</td><td rowspan="2">2</td></tr>
<tr><td></td><td>b)The moist red litmus paper turns blue</td><td>1</td></tr>
<tr><td rowspan="3">11</td><td>a) Orbit (Shell)</td><td>1</td><td rowspan="3">3</td><td rowspan="5">Any Four</td></tr>
<tr><td>b) 3 / Third Shell / M</td><td>1</td></tr>
<tr><td>c) 18</td><td>1</td></tr>
<tr><td rowspan="3">12</td><td>a) Ionic</td><td>1</td><td rowspan="3">3</td></tr>
<tr><td>b) B and C</td><td>1</td></tr>
<tr><td>c) A_2B</td><td>1</td></tr>
<tr><td rowspan="3">13</td><td>a) Sulphate (SO_4^{2-})</td><td>1</td><td rowspan="3">3</td></tr>
<tr><td>b) Sulphuric Acid (H_2SO_4)</td><td>1</td></tr>
<tr><td>c) Fungicide</td><td>1</td></tr>
</table>

14	a) ***A*** (The First one)	**1**	**3**	
	b) When ***hydrogen is burned completely in oxygen , water is*** *the only product* ***formed.***	**1**		
	c) hydrogen is not easily available/***Burns explosively in air***/Storage and distribution is very difficult	**1**		
15	a) ***B***	**1**	**3**	
	b) ***F***	**1**		
	c) ***B***	**1**		
16	a) In laboratory , oxygen is prepared by ***heating crystals of Potassium permanganate ($KMnO_4$)*** in a dry boiling tube	**1**	**4**	**Any Four**
	b) ***Heavy water*** (Deuterium oxide)	**1**		
	c) ***Ozone absorbs Ultra Violet rays*** emitted by the sun	**1**		
	d) ***ChloroFluoroCarbons (CFCs)***	**1**		
17	a) ***2,8,5***	**1**	**4**	
	b) ***10***	**1**		
	c) ***P***	**1**		
	d) ***2,8,1***	**1**		
18	a) ***$KMnO_4$, Conc. HCl***	**1**	**4**	
	b) ***To absorb water*** vapour formed along with Chlorine	**1**		
	c) ***Bleaching powder*** is prepared by ***passing Chlorine gas over dry slaked lime***	**1**		
	d) ***For bleaching/ For the preparation of insectcides/ To remove stains of fabrics/ For purification of water*** *(Any two)*	**1**		
19	a) **A = $H_2PO_4^-$ B = PO_4^{3-}**	**2**	**4**	
	b) ***Tribasic***	**1**		
	c) ***3***	**1**		
20	a) Correct Procedure	**2**	**4**	
	b) **$NaOH + HCl \rightarrow NaCl + H_2O$**	**1**		
	c) ***Sodium Sulphate*** **(Na_2SO_4)** ***/ Sodium hydrogen sulphate or Sodium bisulphate*** **($NaHSO_4$)**	**1**		
	Prepared by Unmesh B Govt VHSS Kallara 9946099800			